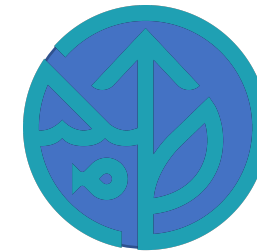


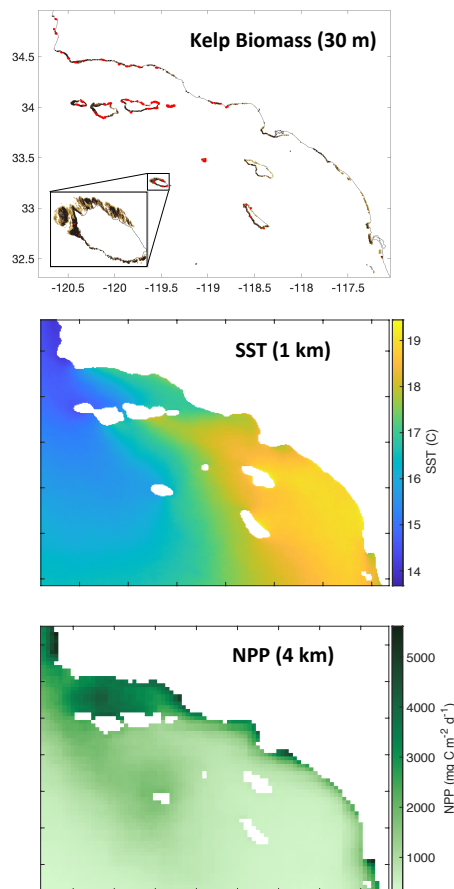


Bell – Remote Sensing of Kelp Forest Biodiversity Dynamics

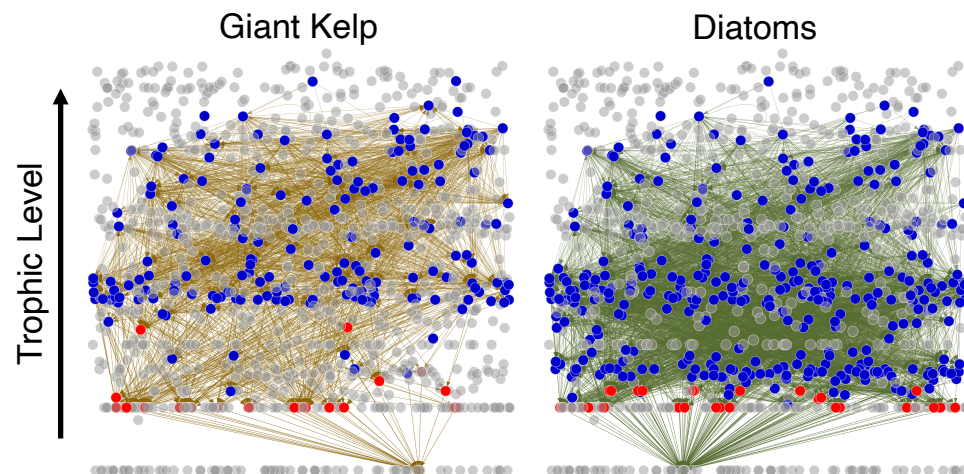
Tom Bell, Woods Hole Oceanographic Institution
Robert Miller, UC Santa Barbara



Remote Sensing Datasets



Topological Food Web



- Determine relationships between species abundance and primary production, biogenic structure & physical environment
- Use a novel food web to refine hypothesized community states and identify archetypical indicator species
- Predict and validate spatial patterns of rocky reef biodiversity across the Southern California Bight

In Situ Datasets



PISCO

1999 – present
23 sites
Variable taxonomic resolution

NPS KFM

1981 – present
38 sites
Variable taxonomic resolution

SBC LTER

2000 – present
11 sites
High taxonomic resolution

USGS SNI

1980 – present
5 sites
Variable taxonomic resolution